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compounds, Oxides.

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DESCRIPTORS: *Soils, Gases, *Organic compounds,
*Nutrition, Physiology, *Plants, Growth, Micro-
organisms, Adsorption.

A series of experiments were carried out over a
period of two years to find out if the soil atmosphere
contain organic substances suitable for feeding the
roots and, if so, the influence they have on the activity
of this organ in higher plants. When the atmosphere in
the soil contains nutrient organic materials, the
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Office of Technical Services